

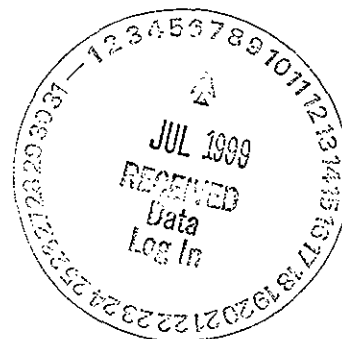
0051672

## CERTIFICATE OF ANALYSIS

Bechtel Hanford, Inc.  
3350 George Washington Way  
Richland, WA 99352

July 2, 1999

Attention: Joan Kessner



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|                            |   |                |
|----------------------------|---|----------------|
| SAF Number                 | : | C99-073        |
| Date First Sample Received | : | June 23, 1999  |
| Number of Samples          | : | One            |
| Sample Type                | : | Water          |
| SDG Number                 | : | W02815         |
| Data Deliverable           | : | 45 Day Summary |

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### I. Introduction

On June 23, 1999, one water sample was received by the Quanterra Environmental Services Richland Laboratory (QESRL) for chemical analysis. Upon receipt, the sample was assigned the following laboratory ID number to correspond with the Bechtel Hanford, Inc. (BHI) specific ID:

|                  |                |               |                        |
|------------------|----------------|---------------|------------------------|
| <u>QESRL ID#</u> | <u>BHI ID#</u> | <u>MATRIX</u> | <u>DATE OF RECEIPT</u> |
| 9CX8J410         | B0VNF3         | Water         | 6/23/99                |

### II. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information; analytical results and the appropriate associated statistical errors.

The requested analysis was: **Hexavalent Chromium**  
Hexavalent Chromium by EPA7196

### III. Quality Control

Bechtel Hanford, Inc.  
July 2, 1999  
Page 2

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The analytical results for the analysis include a minimum of one Laboratory Control Sample (LCS), one matrix spike (MS), one matrix spike duplicate (MSD), and one method (reagent) blank. Any exceptions have been noted in the "Comments" section.

Quality control sample results are reported in the same units as sample results.

#### IV. Comments

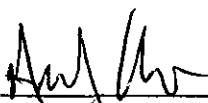
##### Hexavalent Chromium

##### Hexavalent Chromium by EPA7196

The LCS, MS, MSD, batch blank, and sample results are within the requirements of the contract.

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.

Reviewed and approved:

  
for Doug Swenson  
Project Manager

### SAMPLE RESULTS

LAB NAME: QUANTERRA, Richland SDG: /RPT GRP: W02815 / 8083  
LAB SAMPLE ID: 9CX8J410 MATRIX: WATER  
CLIENT ID: B0VNF3 DATE RECEIVED: 6/23/99 12:26:00 PM

| ANALYTE   | RESULT   | Q | COUNTING<br>ERROR (2s) | TOTAL<br>ERROR (2s) | MDA/IDL  | REPORT<br>UNIT | YIELD | METHOD<br>NUMBER |
|-----------|----------|---|------------------------|---------------------|----------|----------------|-------|------------------|
| HEXCHROME | 6.00E-03 |   | N/A                    | N/A                 | 2.00E-03 | mg/L           | N/A   | EPA7196          |

Number of Results:

### DUPLICATE RESULTS

LAB NAME: QUANTERRA, Richland SDG: /RPT GRP: W02815 / 8083  
LAB SAMPLE ID: CX8J414R MATRIX: WATER  
CLIENT ID: B0VNF3 DATE RECEIVED: 6/23/99 12:26:00 P  
ORIG LAB SAMPLE ID: 9CX8J410

| ANALYTE   | DUP<br>RESULT | COUNTING<br>Q ERROR ( 2 s) | TOTAL<br>ERROR ( 2 s) | MDA/<br>IDL | REPORT<br>UNIT | YIELD | METHOD<br>NUMBER | ORIG<br>RESULT | RPD    |
|-----------|---------------|----------------------------|-----------------------|-------------|----------------|-------|------------------|----------------|--------|
| HEXCHROME | 7.00E-03      | N/A                        | N/A                   | 2.00E-03    | mg/L           | N/A   | EPA7196          | 6.00E-03       | 15.38% |

Number of Results:

## BLANK RESULTS

LAB NAME: QUANTERRA, Richland SDG /RPT GRP: W02815 / 8083  
LAB SAMPLE ID: CX8VD11B MATRIX: WATER

| ANALYTE   | RESULT   | Q | COUNTING<br>ERROR (2s) | TOTAL<br>ERROR (2s) | MDA/IDL  | REPORT<br>UNIT | YIELD | METHOD<br>NUMBER |
|-----------|----------|---|------------------------|---------------------|----------|----------------|-------|------------------|
| HEXCHROME | 0.00E+00 | U | N/A                    | N/A                 | 2.00E-03 | mg/L           | N/A   | EPA7196          |

Number of Results:

**LABORATORY CONTROL SAMPLE**

LAB NAME: QUANTERRA, Richland SDG: /RPT GRP: W02815 / 8083  
LAB SAMPLE ID: CX8VD12S MATRIX: WATER

| ANALYTE   | RESULT   | Q | COUNTING<br>ERROR (2 s) | TOTAL<br>ERROR (2 s) | MDA/<br>IDL | REPORT<br>UNIT | YIELD | EXPECTED | RECOVERY |
|-----------|----------|---|-------------------------|----------------------|-------------|----------------|-------|----------|----------|
| HEXCHROME | 4.97E-01 |   | N/A                     | N/A                  | 2.00E-03    | mg/L           | N/A   | 5.00E-01 | 99.40%   |

Number of Results:

## MATRIX SPIKE RESULTS

LAB NAME: QUANTERRA, Richland SDG: /RPT GRP: W02815 / 8083  
LAB SAMPLE ID: CX8J412W MATRIX: WATER

| ANALYTE   | SPIKE<br>RESULT* | COUNTING<br>Q ERROR (2s) | TOTAL<br>ERROR (2s) | MDA/IDL  | REPORT<br>UNIT | SAMPLE<br>RESULT | EXPECTED | RECOVERY |
|-----------|------------------|--------------------------|---------------------|----------|----------------|------------------|----------|----------|
| HEXCHROME | 5.28E-01         | N/A                      | N/A                 | 2.00E-03 | mg/L           | 6.00E-03         | 5.26E-01 | 100.38%  |

Number of Results: 1

\*Spike Result Corrected For Sample Result

Result = IDL When Not Detecte

(Q)ualifiers: U = Analyte result < MDA/IDL,  
J = No U qualifier and result < RDL.

Quanterra Analytical Services, Inc  
rptChemRadMatrixSpike; v3.41

0008

## MATRIX SPIKE RESULTS

LAB NAME: QUANTERRA, Richland SDG: /RPT GRP: W02815 / 8083  
LAB SAMPLE ID: CX8J413W MATRIX: WATER

| ANALYTE   | SPIKE<br>RESULT* | COUNTING<br>Q ERROR (2s) | TOTAL<br>ERROR (2s) | MDA/IDL  | REPORT<br>UNIT | SAMPLE<br>RESULT | EXPECTED | RECOVERY |
|-----------|------------------|--------------------------|---------------------|----------|----------------|------------------|----------|----------|
| HEXCHROME | 5.29E-01         | N/A                      | N/A                 | 2.00E-03 | mg/L           | 6.00E-03         | 5.26E-01 | 100.57%  |

Number of Results:

\*Spike Result Corrected For Sample Result

Result = IDL When Not Detected

(Q)ualifiers: U = Analyte result < MDA/IDL,  
J = No U qualifier and result < RDL.

Quanterra Analytical Services, Inc  
rptChemRadMatrixSpike; v3.41

0009





Richland Laboratory  
Data Review Check List  
METALS

| Work Order Number(s): <i>CX 8J 4101</i> <i>QC Batch 9174340</i>  |            |           |            |                                     |
|--|------------|-----------|------------|-------------------------------------|
| Lab Sample Numbers or SDG: <i>WO 2815</i>  |            |           |            |                                     |
| Method/Test/Parameter: <i>CR+6 in water</i> <i>RICHWC5003 R3</i>   |            |           |            |                                     |
| Review Item  | Yes<br>(✓) | No<br>(✓) | N/A<br>(✓) | 2 <sup>nd</sup> Level<br>Review (✓) |
| <b>A. Initial Calibration</b>  |            |           |            |                                     |
| 1. Performed at required frequency with required number of levels?   | ✓          |           |            |                                     |
| 2. Correlation coefficient within QC limits?   | ✓          |           |            |                                     |
| 3. Initial calibration verification (ICV) analyzed immediately after calibration and results within QC limits?             | ✓          |           |            |                                     |
| 4. Initial calibration blank(ICB) analyzed immediately after ICV and concentrations of all parameters ≤ reporting limit?   | ✓          |           |            |                                     |
| <b>B. Continuing Calibration</b>   |            |           |            |                                     |
| 1. CCV analyzed at required frequency and all parameters within QC limits?   | ✓          |           |            |                                     |
| 2. CCB analyzed at required frequency and all results ≤ reporting limit?   | ✓          |           |            |                                     |
| <b>C. Sample Analysis</b>  |            |           |            |                                     |
| 1. Were any samples with concentrations above the linear range for any parameter diluted and reanalyzed?                   |            |           | ✓          |                                     |
| 2. Were all sample holding times met?  | ✓          |           |            |                                     |
| <b>D. QC Samples</b>   |            |           |            |                                     |
| 1. All results for the preparation blank below limits?   | ✓          |           |            |                                     |
| 2. MS or MS/MSD recoveries within QC limits and %RPD (for MSD) acceptable?   | ✓          |           |            |                                     |
| 3. LCS percent recovery within QC limits and %RPD (for LCSD) acceptable?   | ✓          |           |            |                                     |
| 4. Analytical spikes within QC limits where applicable?  |            |           | ✓          |                                     |
| 5. ICP only: One serial dilution performed per SDG?  |            |           | ✓          |                                     |
| 6. ICP only: CRDL standard (CRI or CRA) analyzed at required frequency?  |            |           | ✓          |                                     |
| 7. ICP only: Interference check samples (ICSA, ICSAB) and HICAL analyzed at the required frequencies and within QC limits? |            |           | ✓          |                                     |

| Review Item  | Yes<br>(✓) | No<br>(✓) | N/A<br>(✓) | 2 <sup>nd</sup> Level<br>Review (✓) |
|--|------------|-----------|------------|-------------------------------------|
| <b>E. Other</b>  |            |           |            |                                     |
| 1. Are all nonconformances included and noted?                         |            |           | ✓          |                                     |
| 2. Is the correct date and time of analysis shown?                     | ✓          |           |            |                                     |
| 3. Did the analyst sign and date the front page of the analytical run? | ✓          |           |            |                                     |
| 4. Correct methodology used?   | ✓          |           |            |                                     |
| 5. Transcriptions checked?   | ✓          |           |            |                                     |
| 6. Calculations checked at minimum frequency?                          | ✓          |           |            |                                     |
| 7. Units checked?  | ✓          |           |            |                                     |

Comments on any "No" response:

Analyst: Roxie Ross

Date: 6-24-99

Second-Level Review: \_\_\_\_\_

Date: \_\_\_\_\_

# CHAIN OF CUSTODY FORMS

|  |  |   |  |  |  |                                  |            |               |             |                                   |  |
|--|--|---|--|--|--|----------------------------------|------------|---------------|-------------|-----------------------------------|--|
| Bechtel Hanford Inc.   |  | <b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>                                     |  |  |  |                                  | B99-073-02 |               | Page 1 of 1 |                                   |  |
| Collector<br>Doug Bowers/Renee Neilson                                       |  | Company Contact<br>Frank Corpuz   |  | Telephone No.<br>373-1661  |  | Project Coordinator<br>TRENT, SJ |            | Price Code 7L |             | Data Turnaround<br><b>21 Days</b> |  |
| Project Designation<br>Borehole Drilling at 116-DR-1 & 116-DR-2 - Water      |  | Sampling Location<br>116-DR 1&2   |  | SAF No.<br>B99-073   |  |                                  |            |               |             |                                   |  |
| Ice Chest No.<br><div style="font-size: 1.5em; margin-left: 50px;">009</div> |  | Field Logbook No.<br>EFL 1133-7   |  | Method of Shipment<br>GOV vehicle  |  |                                  |            |               |             |                                   |  |
| Shipped To<br>Quanterra Incorporated   |  | Offsite Property No.<br><div style="font-size: 1.5em; margin-left: 50px;">N/A</div> |  | Bill of Lading/Air Bill No.<br><div style="font-size: 1.5em; margin-left: 50px;">N/A</div> |  |                                  |            |               |             |                                   |  |
|  |  |   |  | COA <div style="font-size: 1.5em; margin-left: 50px;">R16DRIN6WO</div>                     |  |                                  |            |               |             |                                   |  |

|  |                     |                        |  |  |  |  |  |  |  |  |  |  |
|--|---------------------|------------------------|--|--|--|--|--|--|--|--|--|--|
| <b>POSSIBLE SAMPLE HAZARDS/REMARKS</b><br><br><br><b>Special Handling and/or Storage</b>   | Preservation        | Cool 4C                |  |  |  |  |  |  |  |  |  |  |
|  | Type of Container   | P                      |  |  |  |  |  |  |  |  |  |  |
|  | No. of Container(s) | 1                      |  |  |  |  |  |  |  |  |  |  |
|  | Volume              | 500mL                  |  |  |  |  |  |  |  |  |  |  |
| <div style="font-size: 1.5em; margin-left: 50px;">SDG</div> <div style="font-size: 1.5em; margin-left: 50px;">W07815</div> <div style="text-align: center; margin-top: 20px;"> <b>SAMPLE ANALYSIS</b><br/> <div style="font-size: 1.5em; margin-left: 50px;">Due 7-14</div> <div style="font-size: 1.5em; margin-left: 50px;">J9F230202</div> </div> |                     | Chromium<br>Hex - 7196 |  |  |  |  |  |  |  |  |  |  |

| Sample No. | Matrix * | Sample Date | Sample Time |   |  |  |  |  |  |  |  |  |
|------------|----------|-------------|-------------|---|--|--|--|--|--|--|--|--|
| B0VNF3     | Water    | 6-23-99     | 0835        | X |  |  |  |  |  |  |  |  |
| CX8J4      |          |             |             |   |  |  |  |  |  |  |  |  |
|            |          |             |             |   |  |  |  |  |  |  |  |  |
|            |          |             |             |   |  |  |  |  |  |  |  |  |
|            |          |             |             |   |  |  |  |  |  |  |  |  |
|            |          |             |             |   |  |  |  |  |  |  |  |  |

|   |  |  |  |  |
|---|--|--|--|--|
| <b>CHAIN OF POSSESSION</b>  | <b>Sign/Print Names</b>  |  | <b>SPECIAL INSTRUCTIONS</b><br>** All samples requesting Cr (VI) must be directed to QES-Richland in order to meet the 24 hour holding time for Cr (VI) in water.<br><br><div style="font-size: 1.5em; margin-top: 20px;">Sample is to be filtered prior to analysis</div> | <b>Matrix *</b><br>Soil<br>Water<br>Vapor<br>Other Solid<br>Other Liquid |
| Relinquished By<br><div style="font-size: 1.5em; margin-left: 50px;">R. Nielson</div> | Date/Time<br><div style="font-size: 1.5em; margin-left: 50px;">6-23-99</div> | Received By<br><div style="font-size: 1.5em; margin-left: 50px;">[Signature]</div> | Date/Time<br><div style="font-size: 1.5em; margin-left: 50px;">6-23-99</div>   |  |
| Relinquished By   | Date/Time  | Received By  | Date/Time  |  |
| Relinquished By   | Date/Time  | Received By  | Date/Time  |  |
| Relinquished By   | Date/Time  | Received By  | Date/Time  |  |

|                                 |                 |             |           |
|---------------------------------|-----------------|-------------|-----------|
| <b>LABORATORY SECTION</b>       | Received By     | Title       | Date/Time |
| <b>FINAL SAMPLE DISPOSITION</b> | Disposal Method | Disposed By | Date/Time |

0013

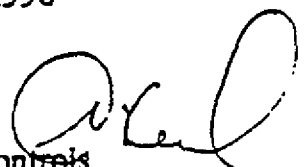
**Interoffice Memorandum**

Job No. 22192  
Written Response Required:  
CCN: N/A  
OU: N/A  
TSD: N/A  
ERA: N/A  
Subject Codes: SES

TO: W. S. Thompson N1-28  
G. C. Henckel H4-80

DATE: February 29, 1996

COPIES: K. A. Smith X0-23  
T. L. Lafreniere X0-23  
D. E. Gergely X0-23

FROM: S. K. De Mers   
Radiological Controls  
T7-05/373-1913

SUBJECT: Total Activities for Off-Site Shipments of Groundwater Samples to NRC Licensed Laboratories

There is no need to perform total activities prior to offsite shipment to NRC licensed labs of samples taken from ground water wells located on the Hanford Site.

All wells reviewed to date for radiological content have shown no well with a total activity in excess of 2,000,000 pCi/l (2,000 pCi/gm), the Department Of Transportation limit for radioactive material. The highest activity in any known well is  $1.56 \times 10^6$  pCi/l H<sup>3</sup>.

While this does not constitute any release from radiological controls for worker protection, it does allow samples to be shipped based on historical laboratory data and save the expense of doing radiochemical analysis.

A copy of the most recent analytical data should be provided to the NRC licensed laboratory with the samples being shipped or if no data is available for new wells, the most recent data from adjacent wells.

Figure 1

SAMPLE CHECK-IN LIST

Date/Time Received: 6-23-99 1226 SG#: W02815  
Work Order Number: AF230.202 SAF #: B99-073  
Shipping Container ID: 009 Chain of Custody #: B99-073-02

1. Custody Seals on shipping container intact? Yes [☒] No [☐
2. Custody Seals dated and signed? Yes [☒] No [☐
3. Chain-of-Custody record present? Yes [☒] No [☐
4. Cooler temperature 4°C
5. Vermiculite/packing materials is Wet [☐] Dry [☒
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? Yes [☐] No [☒

8. Samples have:  
☒ tape ☐ hazard labels  
☒ custody seals ☐ appropriate sample labels

9. Samples are:  
☒ in good condition ☐ leaking  
☐ broken ☐ have air bubbles

10. Where any anomalies identified in sample receipt? Yes [☐] No [☒
11. Description of anomalies (include sample numbers): \_\_\_\_\_

Sample Custodian/Laboratory: L. Jettentler Date: 6-23-99  
Telephoned To: \_\_\_\_\_ On \_\_\_\_\_ By \_\_\_\_\_

# Client Sample Screening Results

25-Jun-99

6/25/99

| CLIENT CODE | ID      | MATRIX       | RECEIVED           | DETECTOR | ACQ DATE           | SAMPLE          | MINUTES         | CNTS A          | NET CPM A   | CNTS B | NET CPM B  |            |
|-------------|---------|--------------|--------------------|----------|--------------------|-----------------|-----------------|-----------------|-------------|--------|------------|------------|
| BHI         | B0M4M3  |              | 6/25/99 9:29:00 AM | QUAD22C  | 6/25/99 2:30:25 PM | B0M4M3          | 30              | 15              | 0.385       | 576    | 18.03125   |            |
|             | CX9MM   | LIQUID       |                    | Bkg:     | 6/25/99 4:27:44 AM | BKG             | 800             | 92              | 0.115       | 935    | 1.16875    |            |
| Anl Date:   | 6/25/99 | Tot Sa, Alq: | 5.00E-01           | 1.00E+01 | Alp;               | (Dpm/ 5.18E-01  | (uCi/ 1.17E-05  | (pCi/ 2.33E+01  | ± 2.3E+01   | CAT    | 1.1E+00    | Lab        |
| Ppt mg:     | 1.6     | Units:       | L                  | ml       | Bet;               | Alq): 3.34E+01  | Sa): 7.53E-04   | L/g): 1.51E+03  | ± 6.7E+01   | I      | 3.3E-02    | Alq<br>L/g |
| BHI         | B0M4M4  |              | 6/25/99 9:29:00 AM | QUAD22D  | 6/25/99 2:30:25 PM | B0M4M4          | 30              | 6               | 0.12125     | 151    | 3.86583333 |            |
|             | CX9N0   | LIQUID       |                    | Bkg:     | 6/25/99 4:27:44 AM | BKG             | 800             | 63              | 0.07875     | 934    | 1.1675     |            |
| Anl Date:   | 6/25/99 | Tot Sa, Alq: | 5.00E-01           | 1.00E+01 | Alp;               | (Dpm/ 2.30E-01  | (uCi/ 5.19E-06  | (pCi/ 1.04E+01  | ± 2.2E+01   | CAT    | 2.4E+00    | Lab        |
| Ppt mg:     | 0.5     | Units:       | L                  | ml       | Bet;               | Alq): 7.18E+00  | Sa): 1.62E-04   | L/g): 3.23E+02  | ± 3.5E+01   | I      | 1.5E-01    | Alq<br>L/g |
| BHI         | B0VNF3  |              | 6/25/99 9:29:00 AM | QUAD23A  | 6/25/99 2:30:26 PM | B0VNF3          | 30              | 2               | -0.01083333 | 36     | 0.1975     |            |
|             | CX8J4   | LIQUID       |                    | Bkg:     | 6/25/99 4:27:57 AM | BKG             | 800             | 62              | 0.0775      | 802    | 1.0025     |            |
| Anl Date:   | 6/25/99 | Tot Sa, Alq: | 5.00E-01           | 1.00E+01 | Alp;               | (Dpm/ -3.61E-02 | (uCi/ -8.13E-07 | (pCi/ -1.63E+00 | ± 1.9E+01   | CAT    | 5.0E-01    | Lab        |
| Ppt mg:     | 1.6     | Units:       | L                  | ml       | Bet;               | Alq): 3.81E-01  | Sa): 8.57E-06   | L/g): 1.71E+01  | ± 1.8E+01   | I      | 2.9E+00    | Alq<br>L/g |
| BHI         | B0VPM7  |              | 6/25/99 9:29:00 AM | QUAD23B  | 6/25/99 2:30:26 PM | B0VPM7          | 30              | 16              | 0.397083333 | 130    | 3.29458333 |            |
|             | CX8MM   | SOIL         |                    | Bkg:     | 6/25/99 4:27:57 AM | BKG             | 800             | 109             | 0.13625     | 831    | 1.03875    |            |
| Anl Date:   | 6/25/99 | Tot Sa, Alq: | 8.00E+01           | 9.35E+01 | Alp;               | (Dpm/ 2.45E+00  | (uCi/ 9.43E-04  | (pCi/ 1.18E+01  | ± 5.8E+00   | CAT    | 4.2E+00    | Lab        |
| Ppt mg:     | 93.5    | Units:       | g                  | mg       | Bet;               | Alq): 6.98E+00  | Sa): 2.69E-03   | L/g): 3.36E+01  | ± 4.0E+00   | I      | 3.0E+00    | Alq<br>L/g |
| BHI         | B0VPM8  |              | 6/25/99 9:29:00 AM | QUAD23C  | 6/25/99 2:30:26 PM | B0VPM8          | 30              | 17              | 0.429166667 | 134    | 3.42916667 |            |
|             | CX8N0   | SOIL         |                    | Bkg:     | 6/25/99 4:27:57 AM | BKG             | 800             | 110             | 0.1375      | 830    | 1.0375     |            |
| Anl Date:   | 6/25/99 | Tot Sa, Alq: | 8.00E+01           | 9.11E+01 | Alp;               | (Dpm/ 2.61E+00  | (uCi/ 1.03E-03  | (pCi/ 1.29E+01  | ± 6.0E+00   | CAT    | 3.9E+00    | Lab        |
| Ppt mg:     | 91.1    | Units:       | g                  | mg       | Bet;               | Alq): 7.17E+00  | Sa): 2.84E-03   | L/g): 3.55E+01  | ± 4.1E+00   | I      | 2.8E+00    | Alq<br>L/g |
| BHI         | B0VPM9  |              | 6/25/99 9:29:00 AM | QUAD23D  | 6/25/99 2:30:26 PM | B0VPM9          | 30              | 7               | 0.174583333 | 129    | 3.30375    |            |
|             | CX8N2   | SOIL         |                    | Bkg:     | 6/25/99 4:27:57 AM | BKG             | 800             | 47              | 0.05875     | 797    | 0.99625    |            |
| Anl Date:   | 6/25/99 | Tot Sa, Alq: | 8.00E+01           | 9.29E+01 | Alp;               | (Dpm/ 9.35E-01  | (uCi/ 3.63E-04  | (pCi/ 4.53E+00  | ± 5.0E+00   | CAT    | 1.1E+01    | Lab        |
| Ppt mg:     | 92.9    | Units:       | g                  | mg       | Bet;               | Alq): 7.03E+00  | Sa): 2.73E-03   | L/g): 3.41E+01  | ± 4.0E+00   | I      | 2.9E+00    | Alq<br>L/g |

0016

25-Jun-99

Quanterra Environment Services, SCP V2.03

/

## COC Signature Page

Batch #: 9174340

Initials/Date

Procedure #

Released By

~~ADA~~ 6-23-99

Richrc0009

Received

B 6-23-99

RICHWC5003 R3

Released By

B 6-24-99

n/a

Received

Released By

n/a

Received

Released By

n/a

Received

Released By

n/a

Received

Released By

n/a

Received

Released By

n/a

Received

RC-131, Rev.0, 8/98



RQC050

Quanterra Incorporated  
WET CHEM BATCHSHEET  
RichlandRun Date: 6/23/99  
Time: 15:51:12

## PRODUCTION FIGURES - WET CHEM

| <u>TOTAL<br/>NUMBER</u> | <u>SAMPLE<br/>NUMBER</u> | <u>QC</u> | <u>RE-RUN<br/>MATRIX</u> | <u>RE-RUN<br/>OTHER</u> | <u>MISC<br/>NUMBER</u> | <u>TOTAL<br/>HOURS</u> | <u>EXPANDED<br/>DELIVERABLE</u> |
|-------------------------|--------------------------|-----------|--------------------------|-------------------------|------------------------|------------------------|---------------------------------|
|-------------------------|--------------------------|-----------|--------------------------|-------------------------|------------------------|------------------------|---------------------------------|

METHOD: EA Hexavalent Chromium  
QC BATCH #: 9174340  
PREP DATE: 6/23/99  
USER: ROSSR6A)  
INITIALS:  
PREP  
ANALDATA ENTRY:  
INITIALS  
DATE

| <u>Work Order</u> | <u>Lab Number</u> | <u>Structured<br/>Analysis</u> | <u>Exp.<br/>Del.</u> | <u>Analysis<br/>Date</u> | <u>Sample ID:</u> |
|-------------------|-------------------|--------------------------------|----------------------|--------------------------|-------------------|
| CX8VD-1-01        | J-9F230000-340-B  | XX I 88 EA 5I                  |                      |                          | INTRA-LAB BLANK   |
| CX8VD-1-02        | J-9F230000-340-C  | XX I 88 EA 5I                  |                      |                          | INTRA-LAB CHECK   |
| CX8J4-1-01        | J-9F230202-001    | XX I 88 EA 5I                  |                      |                          | BOVNF3            |
| CX8J4-1-03        | J-9F230202-001-D  | XX I 88 EA 5I                  |                      |                          | BOVNF3            |
| CX8J4-1-02        | J-9F230202-001-S  | XX I 88 EA 5I                  |                      |                          | BOVNF3            |
| CX8J4-1-04        | J-9F230202-001-X  | XX I 88 EA 5I                  |                      |                          | BOVNF3 DUP        |

## Control Limits

(85-115)

(85-115)

(85-115)